INSTALLATION INSTRUCTIONS FOR PART 99-3012

APPLICATIONS

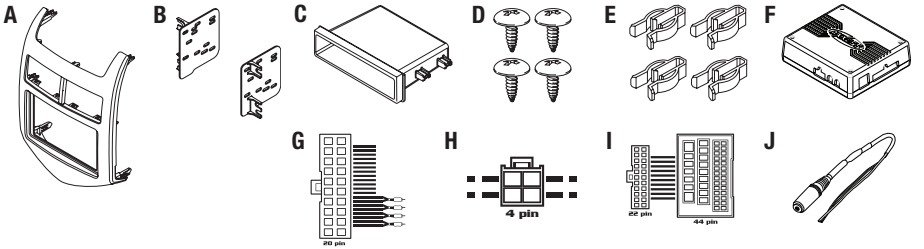
Chevy Sonic 2012-up
99-3012G

KIT FEATURES

- ISO DIN Head unit provision with pocket
- DDIN Head unit provisions
- ***Painted Gray to match factory finish***
- Interface included retains factory OnStar, Bluetooth, steering wheel controls, and all warning chimes.
- Provides a 12-volt accessory power and VSS, Parking Brake, and Reverse signals.

KIT COMPONENTS

• A) Radio Trim Panel • B) Radio Brackets • C) Pocket • D) (4) #8 x 3/8" Phillips truss-head screws • E) Panel Clips
• F) Interface • G) 20-pin harness • H) 4-pin harness w/stripped leads • I) 22-pin to 44-pin harness
• J) Female 3.5mm Connector w/ Brown and Brown/White Wires



WIRING & ANTENNA CONNECTIONS (Sold Separately)

Wiring Harness: • ***Interface included***

Antenna Adapter: • 40-EU55 multi-use antenna adapter

TOOLS REQUIRED

Panel Removal Tool • Phillips Screwdriver • Socket Wrench

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Caution

Metra recommends disconnecting the negative battery terminal before beginning any installation. All accessories, switches, and especially air bag indicator lights must be plugged in before reconnecting the battery or cycling the ignition.

****NOTE: Refer also to the instructions included with the aftermarket radio.***

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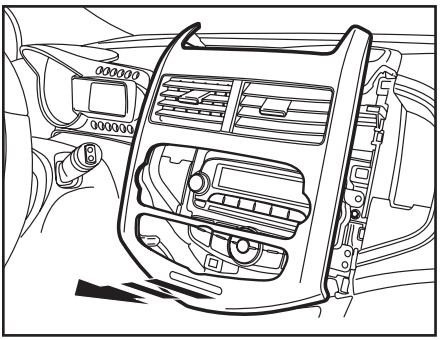
Metra recommends MECP certified technicians

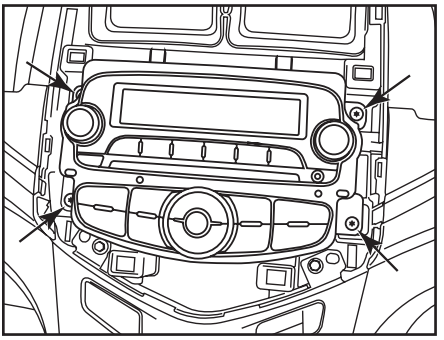
Dash Disassembly

1. Using a panel removal tool, unsnap and remove the panel surrounding the radio (vents above radio included). (Figure A)
2. Unclip and remove the factory A/C vents from the radio trim panel.
3. Remove four 7mm screws to remove the radio. (Figure B)

Continue to kit assembly



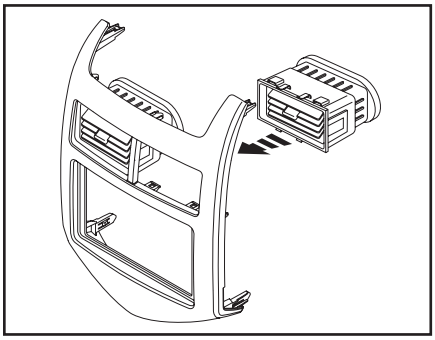
(Figure A)



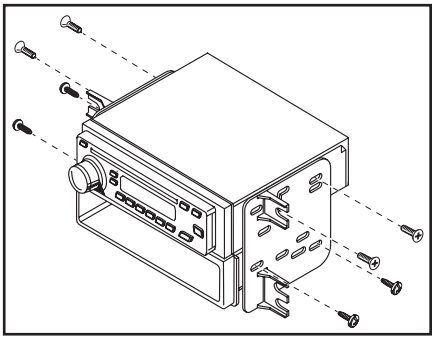
(Figure B)

ISO DIN head unit provision with pocket

1. Install factory vents into the radio trim panel. (Figure A)
2. Install the four included panel clips onto the appropriate locations of the radio trim panel.
3. Mount the pocket to the radio brackets with the (4) #8 x 3/8" Phillips screws supplied. (Figure B)
4. Slide the head unit into radio brackets and secure with screws supplied with the radio. (Figure B)
5. Locate the factory wiring harness and antenna plug in the dash. Metra recommends using the proper mating adapters from Metra and/or AXXESS. Test the unit for operation.
6. Mount the new radio assembly into the dash, snap-in the radio panel, and reassemble dash in reverse order of disassembly. (Figure C)



(Figure A)



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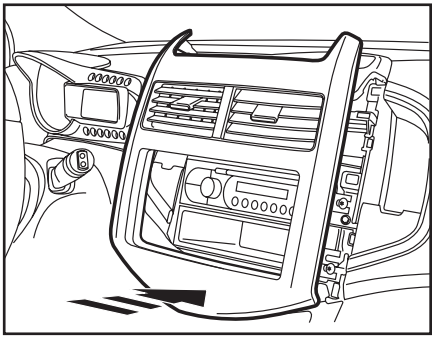
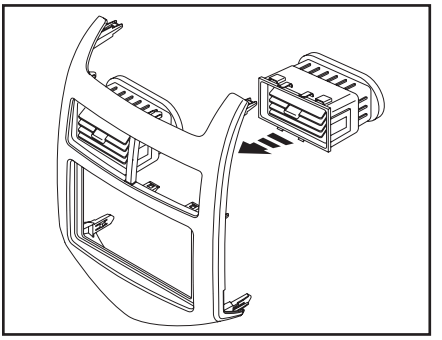


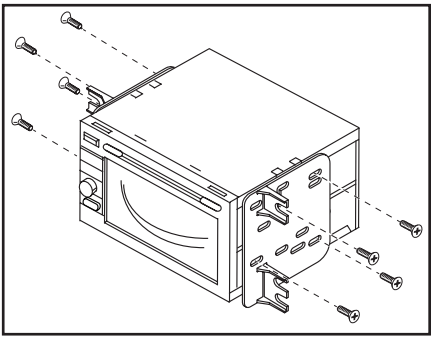
(Figure C)

Double DIN head unit provisions

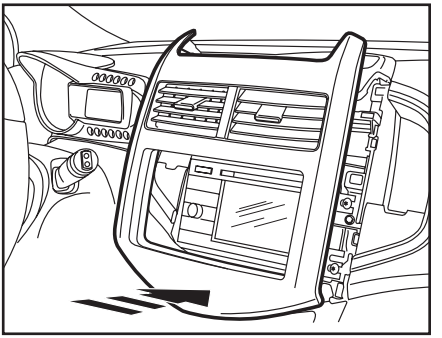
1. Install factory vents into the radio trim panel. (Figure A)
2. Install the four included panel clips onto the appropriate locations of the radio trim panel.
3. Slide the Double DIN head unit into the radio housing brackets and secure with screws supplied with the unit. (Figure B)
4. Locate the factory wiring harness and antenna plug in the dash. Metra recommends using the proper mating adapters from Metra and/or AXXESS. Test the unit for operation.
5. Mount the new radio assembly into the dash, snap-in the radio panel, and reassemble dash in reverse order of disassembly. (Figure C)



(Figure A)



(Figure B)



(Figure C)

Axxess Interface

FEATURES

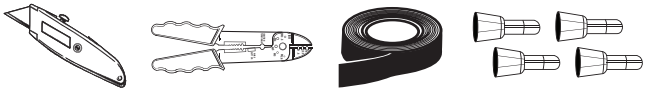
- Retains amplified or non-amplified systems.
- Retains factory OnStar, Bluetooth, steering wheel controls, and all warning chimes.
- Provides a 12 volt 10 amp accessory output and VSS, Parking Brake, and Reverse signals.

INTERFACE COMPONENTS

Axxess interface • 4-pin harness with stripped leads
20-pin harness • 22-pin to 44-pin harness
Female 3.5mm connector with Brown and Brown/White wires

TOOLS REQUIRED

• Cutting tool • Crimping tool • Tape • Connectors (butt-connectors, bell caps, etc.)



Interface Wiring

1. From the 20-pin harness

- Connect the **Red** wire to the ignition/accessory wire of the aftermarket radio.
- Connect the **Orange/White** wire to the illumination wire of the aftermarket radio. If the aftermarket radio has no illumination wire just tape off the **Orange/White** wire.
- Connect the **Blue/White** wire to the amp turn on wire of the aftermarket radio.
- Connect the **Brown** wire to the mute wire of the aftermarket radio. If the aftermarket radio does not have a Mute wire, tape up the **Brown** wire.

  NOTE: If the radio shuts off when OnStar is activated even though the Mute wire is connected, you may need to add a resistor between the switched 12V wire and the mute line. We suggest 10K ohms. If the radio still shuts off, you may want to reduce the resistor value. If the radio mutes at inappropriate times (such as when the lights are switched on or off), the resistor value may need to be increased.
- The **Black/Yellow** wire will be discussed later on in the instructions.

For Non-amplified Systems

- Connect the **White** wire to the left front positive speaker output of the aftermarket radio.
- Connect the **White/Black** wire to the left front negative speaker output of the aftermarket radio.
- Connect the **Gray** wire to the right front positive speaker output of the after market radio.
- Connect the **Gray/Black** wire to the right front negative speaker output of the aftermarket radio.

Interface Wiring

For Amplified Systems

- Connect the **White** RCA to the left front low level output of the aftermarket radio.
- Connect the **Gray** RCA to the right front low level output of the aftermarket radio.
- Connect the **Green** RCA to the left rear low level output of the aftermarket radio.
- Connect the **Violet** RCA to the right rear low level output of the aftermarket radio.

The following wires are for NAV or media type aftermarket radios:

- Connect the **Green** wire to the parking brake wire of the aftermarket navigation radio.
- Connect the **Blue/Pink** wire to the VSS or speed sense wire of the aftermarket navigation radio.
- Connect the **Green/Purple** wire to the reverse wire of the aftermarket navigation radio.

2. From the 22-way Harness

- Connect the **Black** wire with the ring terminal to the back of the aftermarket radio chassis.
- Connect the 3.5mm jack to your aftermarket radios steering wheel control input (if equipped).

  Note: If using an Eclipse or Kenwood radio, use supplied female a 3.5 adaptor.

  * For Kenwood radios: Connect the Kenwood SWC wire (normally **Blue/Yellow**) to the **Brown** wire of the ASWC. Isolate and tape the **Brown/White** wire, it will not be used.

  * For Eclipse radios: Connect the Eclipse SWC wires (Normally **Brown** and **Brown/Black**) to the **Brown** and **Brown/White** wires of the ASWC. **Brown** connected to **Brown** and **Brown/White** connected to **Brown/Black**.

Interface Wiring

3. From the 44-way Harness:

- Connect the Black wire to the ground wire of the aftermarket radio.
- Connect the RCA's to the AUX in on the aftermarket radio (if equipped)

  Note: This will allow you to retain the 3.5 AUX JACK in the console. Connect the Yellow wire to the 12-volt constant wire of the aftermarket radio. The interface comes set up for amplified systems. If the vehicle is not amplified disconnect the 4-pin harness located between the 44-way and 22-way connector.
- Connect the supplied 4-pin speaker harness and connect the following:
- Connect the **Violet** wire to the right rear positive wire of the aftermarket radio.
- Connect the **Violet/Black** wire to the right rear negative wire of the aftermarket radio.
- Connect the **Green** wire to the left rear positive wire of the aftermarket radio.
- Connect the **Green/Black** wire to the left rear negative wire of the aftermarket radio.
- Disregard the **Pink** wire. It is not used in this application.

Installing the Interface

1. With all the connections completed, plug the 20- and 22-pin harnesses into the interface.
2. Reconnect the negative battery terminal.
3. Plug the 44-pin GM harness into the vehicle side harness, and plug the aftermarket radio harness into the aftermarket radio.

   Note: Continue to the TESTING THE INTERFACE section if you do not have factory audio controls on the steering wheel.

Programming the Steering Wheel Controls

1. Turn on the ignition.
2. The SWC status LED on the interface will begin to blink rapidly.
3. Tap volume up steering wheel control until the LED stops blinking rapidly.
4. The LED will go off when it detects the car.
5. It will then will blink the LED the number corresponding to the radio type. (See radio types below). Then the LED will remain off.

To manually set the radio type:

This action must begin 20-seconds AFTER the Key is set to ACC ON position *OR* a steering wheel button is pressed that is NOT Volume Up nor Volume Down.

1. Hold Down VOLUME DOWN button for 30-seconds
2. LED will begin to FAST blink
3. Press the VOLUME UP button the number associated with the desired radio type (as seen in the radio list below). The LED will remain ON while holding down the button & will go back to blinking when released. For example: If the radio is a JVC, press the VOLUME UP button 5 times.

   Radio – Eclipse 1

   Radio – Kenwood 2

   Radio – Clarion 3

   Radio – Sony – Dual 4

   Radio – JVC 5

   Radio – Jensen – Pioneer 6

   Radio – Alpine 7

   Radio – Visteon 8

   Radio – Valor 9

   Radio – Clarion – 5K 10

4. Press the VOLUME DOWN button to finish. The LED will then go off.
5. After a few seconds, the LED will then blink the number of times corresponding to the radio ID type. This number should be the same number the user has just pressed the VOLUME UP button.

To Force the unit to retry to auto-detect the radio

This action must begin 20-seconds AFTER the key is set to ACC ON position *OR* a steering wheel button is pressed that is NOT Volume Up nor Volume Down.

1. Hold Down VOLUME UP button for 30-seconds.
2. LED will go ON to indicate auto-detecting. (button can be released now)
3. After about 6-seconds, LED will go OFF indicating completion.
4. The LED will then blink the number of times corresponding to the radio ID type it has detected. (See Radio chart above)

   Note: Not every aftermarket radio will have all of the possible SWC commands on the steering wheel. Aftermarket radios that do not have Bluetooth features will not recognize the PTT (Push to Talk) or On Hook/Off Hook commands.

Please refer to the radios owners' manual or wireless remote for specific commands the radio will recognize.

Testing the Interface

With the vehicle battery re-connected, cycle the key on and off once and back on. Turn the ignition on, and then turn the aftermarket radio on. Push the OnStar button, the radio should turn off (radio will mute if mute wire is connected) and you should hear OnStar. Push the OnStar cancel button and the radio should come back on. Cycle the a/c fan speed all the way to high and back to low when you first install the kit.

Chime/Turn Signal Volume Adjustment

To adjust the chime volume, use a small screwdriver to rotate the potentiometer, located on the 8-pin harness side of the interface (closest to 8-pin harness).

Turn clockwise to make the chime/turn signal louder and counterclockwise to make the chime/turn signal softer.

Note: Turn signal will not be affected in non-amplified systems.

Remapping the SWC buttons

Let's say you have the SWC programmed to your vehicle and your radio and you want to change the button assignment for the steering wheel controls.

For instance you would like Seek Up to be Mute.

First a few notes:

- The SWC must have detected the vehicle and radio it is attached to before you can remap any buttons.
- You can only start the remapping of the steering wheel controls process within the first 20-seconds of turning the ignition key on. If you wait longer than the 20-seconds you will have to turn the ignition off then back on again.
- Within the first 20-seconds if any button other then Volume Up or Volume Down is pushed, the remapping process will stop.
- If during the remapping process no button is pushed for 30-seconds the remapping process is aborted and the original settings are reset.

So let's begin the remapping process:

1. Ideally having the interface visible is recommended since you can see the LED flashes to confirm button recognition.
2. Turning off the radio is recommended
3. Within the first 20-seconds of turning the ignition on, press and hold down the Volume Up button for at least 25-seconds.
4. The led will light up solid red. Release Volume Up and the LED will go out. Volume Up has now been programmed.
5. Follow the list below in order however pushing the steering wheel control button you want for the function below. If you want to skip a command press the Volume Up on the steering wheel, this will tell the interface to skip the command and go to the next one.

1. Volume Up	**6.** Mute	**11.** Play/Enter
2. Volume Down	**7.** Preset Up	**12.** PTT (Push To Talk)
3. Seek Up/Next	**8.** Preset Down	**13.** On Hook
4. Seek Down/Prev	**9.** Power	**14.** Off Hook
5. Source/Mode	**10.** Band	

Remapping the SWC buttons (cont.)

Note: Remember not all radios will have all these commands. Please refer to the radios' owners manual for specific commands recognized by the radio. For instance the next command to be mapped is the Volume Down command. Let's say you want the Mode button on your steering wheel to be the Volume Down command. Hold down the Mode button till the led lights up solid red, and then release it. Now your Mode button on the steering wheel is Volume Down.

6. After the last button is programmed on your steering wheel (you do not have to go through the whole list), hold down the Volume Up button for at least 10 seconds then the led will go out or after the 18th button is programmed or skipped the LED will go out and the remapping is completed.

If for any reason after remapping the steering wheel controls you want to return to the original steering wheel control settings, follow these steps:

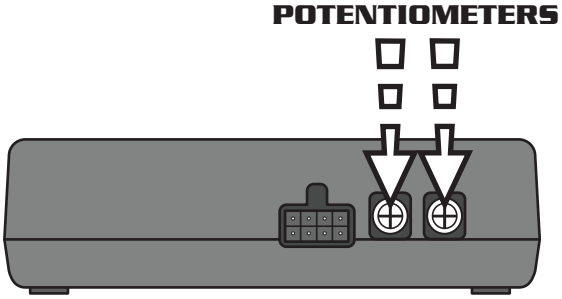
1. Within the first 20-seconds of turning the ignition on. Press and hold down the original Volume Down button (not the Volume Down button you just remapped) for at least 25-seconds.

2. The LED will turn on then release the Volume Down button and the led will turn off.

3. The original steering wheel control settings will be restored.

Overall Gain Level Adjustment

To adjust the overall audio volume of your vehicle, use a small screwdriver to rotate the potentiometer, located on the 8-pin harness side (furthest away from 8-pin harness). Turn clockwise to make gain louder and counterclockwise to make the gain softer.



OnStar level adjustment

To adjust the OnStar volume level find the **Black/Yellow** wire on the 20-pin harness. Push the blue OnStar button, while the voice is speaking tap the **Black/Yellow** wire to ground. There are 4 volume settings for OnStar; once the 4th setting is reached and the **Black/Yellow** wire is tapped to ground it will automatically go back to the first volume setting. Once the volume is set it will stay at that volume until the **Black/Yellow** wire is tapped to ground again. This can be set during installation and then left alone. If user adjustment is desired, a momentary contact switch (sold separately) can be added. Connect one terminal from the switch to ground and the other terminal to the **Black/Yellow** wire. The volume will change one level every time the switch is pressed.

Vehicle customization with optional LCD

(AXXESS part # XIA-LCD sold separately)

The OEM radio is used to customize certain features of the vehicle.

Use the optional lcd to adjust these features accordingly:

1. Press the ESC button and PRESS ENTER TO SET LANGUAGE will appear on the screen.
2. To change the LANGUAGE press the ENTER button then press then press the UP and DOWN buttons to change the LANGUAGE.
3. Once you have chosen you LANGUAGE then press ESC to go back to be able to scroll through the other settings.
4. If you do not wish to change the LANGUAGE you can scroll up and down through the different settings with the UP and DOWN buttons.
5. Remember to press ENTER to change the desired setting.

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